## IN THE CLAIMS

Please cancel claims 2, 7, 12, 17-18, 20, 24, 28, 32-33, 35-37 and 42-45. Please amend the claims as follows.

1	1. (Currently Amended) An apparatus comprising:
2	(A) at least one processor;
3	(B) a memory coupled to the at least one processor;
4	(C) first and second logical partitions defined on the apparatus, the first logical
5	partition controlling a shared network I/O adapter and the second logical partition using
6	the shared network I/O adapter controlled by the first logical partition;
7	(D) an I/O adapter sharing mechanism residing in the memory and executed by the
8	at least one processor, the I/O adapter sharing mechanism comprising:
9	(D1) an I/O adapter device driver in the first logical partition, the I/O
10	adapter device driver including a hardware interface to the shared network I/O
11	adapter;
12	(D2) a virtual device driver in the second logical partition, wherein the
13	virtual device driver provides a set of functions at least partially determined by
14	functions available in querying the I/O adapter device driver in the first logical
15	partition for its available functions; and
16	(E) a communication mechanism that controls exchange of information between
17	the virtual device driver and the I/O adapter device driver.
1	2. (Cancelled)
1	3. (Original) The apparatus of claim 1 further comprising a transfer mechanism that
2	transfers data between the virtual device driver and the shared network I/O adapter
3	without the data passing through the I/O adapter device driver.

- 4. (Original) The apparatus of claim 1 wherein the communication mechanism comprises
- 2 a partition manager that communicates between the first and second logical partitions.
- 1 5. (Original) The apparatus of claim 4 wherein the communication mechanism further
- 2 comprises a hosting interface in the first logical partition that communicates between the
- 3 I/O adapter device driver and the partition manager, wherein the partition manager
- 4 communicates between the hosting interface in the first logical partition and the virtual
- 5 device driver in the second logical partition.

1	6. (Currently Amended) An apparatus comprising:
2	(A) at least one processor;
3	(B) a memory coupled to the at least one processor;
4	(C) first and second logical partitions defined on the apparatus, the first logical
5	partition controlling a shared network I/O adapter and the second logical partition using
6	the shared network I/O adapter controlled by the first logical partition;
7	(C1) the first logical partition comprising:
8	an I/O adapter device driver that includes a hardware interface to
9	the shared network I/O adapter;
10	(C2) the second logical partition comprising:
11	a virtual device driver that receives data to be sent to the shared
12	network I/O adapter and data received from the shared network I/O
13	adapter, wherein the virtual device driver provides a set of functions at
14	least partially determined by functions available in querying the I/O
15	adapter device driver in the first logical partition for its available
16	functions; and
17	(D) a communication mechanism coupled to the first and second logical partitions
18	that communicates between the virtual device driver and the I/O adapter device driver.
1	7. (Cancelled)
1	8. (Original) The apparatus of claim 6 further comprising a transfer mechanism that
2	transfers data between the virtual device driver and the shared network I/O adapter
3	without the data passing through the I/O adapter device driver.
1	9. (Original) The apparatus of claim 6 wherein the communication mechanism comprises
2	a partition manager that communicates between the first and second logical partitions.

- 1 10. (Original) The apparatus of claim 9 wherein the communication mechanism further
- 2 comprises a hosting interface in the first logical partition that communicates between the
- 3 I/O adapter device driver and the partition manager, wherein the partition manager
- 4 communicates between the hosting interface in the first logical partition and the virtual
- 5 device driver in the second logical partition.

- 1 11. (Currently Amended) An apparatus comprising: 2 at least one processor; 3 a memory coupled to the at least one processor; 4 first and second logical partitions defined on the apparatus, the first logical 5 partition controlling a shared network I/O adapter and the second logical partition using 6 the shared network I/O adapter controlled by the first logical partition; 7 an I/O adapter device driver in the first logical partition, the I/O adapter device 8 driver including a hardware interface to the shared network I/O adapter; 9 a virtual device driver in the second logical partition, the virtual device driver 10 providing a set of functions at least partially determined from functions available in 11 querying the I/O adapter device driver in the first logical partition for its available 12 functions; and 13 a communication mechanism that communicates between the virtual device driver 14 in the second logical partition and the I/O adapter device driver in the first logical 15 partition. 1 12. (Cancelled) 1 13. (Original) The apparatus of claim 11 further comprising a transfer mechanism that 2 transfers data between the virtual device driver and the shared network I/O adapter 3 without the data passing through the I/O adapter device driver.
- 1 14. (Original) The apparatus of claim 11 wherein the communication mechanism
- 2 comprises a partition manager that communicates between the first and second logical
- 3 partitions.

- 1 15. (Original) The apparatus of claim 14 wherein the communication mechanism further
- 2 comprises a hosting interface in the first logical partition that communicates between the
- 3 I/O adapter device driver and the partition manager, wherein the partition manager
- 4 communicates between the hosting interface in the first logical partition and the virtual
- 5 device driver in the second logical partition.

1	16. (Currently Amended) An apparatus comprising:
2	at least one processor;
3	a memory coupled to the at least one processor;
4	first and second logical partitions defined on the apparatus, the first logical
5	partition controlling a shared network I/O adapter and the second logical partition using
6	the shared network I/O adapter controlled by the first logical partition; and
7	a partition manager residing in the memory and executed by the at least one
8	processor, the partition manager performing the steps of:
9	(1) querying an I/O adapter device driver in the first logical partition for its
10	available functions;
11	(2) providing a virtual device driver in the second logical partition with a
12	set of functions at least partially determined from the available functions
13	determined in step (1);
14	[[(1)]] (3) receiving at least one transmit message from [[a]] the virtual
15	device driver in the second logical partition;
16	[[(2)]] (4) sending at least one transmit message to [[an]] the I/O adapter
17	device driver in the first logical partition that includes a hardware interface to the
18	shared network I/O adapter; and
19	[[(3)]] (5) transferring data from the virtual device driver in the second
20	logical partition to the shared network I/O adapter without the data passing
21	through the I/O adapter device driver in the first logical partition.

17-18. (Cancelled)

- 1 19. (Currently Amended) A computer-implemented method for sharing a shared network
- 2 I/O adapter between first and second logical partitions on a computer apparatus, the
- 3 method comprising the steps of:
- 4 (A) providing an I/O adapter device driver in the first logical partition, the I/O
- 5 adapter device driver including a hardware interface to the shared network I/O adapter;
- 6 (B) determining a plurality of functions provided by the shared network I/O
- 7 adapter by querying the I/O adapter device driver for its available functions;
- 8 (C) providing a virtual device driver in the second logical partition, the virtual
- 9 device driver providing a set of functions at least partially determined by the plurality of
- 10 functions determined in step (B); and
- (D) controlling exchange of information between the virtual device driver and the
- 12 I/O adapter device driver.
- 1 20. (Cancelled)
- 1 21. (Original) The method of claim 19 further comprising the step of transferring data
- 2 between the virtual device driver and the shared network I/O adapter without the data
- 3 passing through the I/O adapter device driver.
- 1 22. (Original) The method of claim 19 wherein step (D) is performed by a partition
- 2 manager that communicates between the first and second logical partitions.

- 1 23. (Currently Amended) A computer-implemented method for sharing a shared network
- 2 I/O adapter between first and second logical partitions on a computer apparatus, the
- 3 method comprising the steps of:
- 4 (A) defining the first and second logical partitions, the first logical partition
- 5 controlling the shared network I/O adapter and the second logical partition using the
- 6 shared network I/O adapter controlled by the first logical partition, the first logical
- 7 partition comprising an I/O adapter device driver that includes a hardware interface to the
- 8 shared network I/O adapter, the second logical partition comprising a virtual device driver
- 9 that receives data to be sent to the shared network I/O adapter and data received from the
- shared network I/O adapter;
  - (B) determining a plurality of functions provided by the shared network I/O
- adapter by querying the I/O adapter device driver for its available functions;
- 13 (C) providing a set of functions for the virtual device driver that is at least
- partially determined by the plurality of functions determined in step (B); and
- 15 (D) communicating between the virtual device driver and the I/O adapter device
- 16 driver.

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- 1 24. (Cancelled)
- 1 25. (Original) The method of claim 23 further comprising the step of transferring data
- 2 between the virtual device driver and the network I/O adapter without the data passing
- 3 through the I/O adapter device driver.
- 1 26. (Original) The method of claim 23 wherein step (D) is performed by a partition
- 2 manager that communicates between the first and second logical partitions.

- 1 27. (Currently Amended) A computer-implemented method for sharing a shared network
- 2 I/O adapter between first and second logical partitions on a computer apparatus, the
- 3 method comprising the steps of:
- 4 (A) defining the first and second logical partitions on the apparatus, the first
- 5 logical partition controlling the shared network I/O adapter and the second logical
- 6 partition using the shared network I/O adapter controlled by the first logical partition;
- 7 (B) providing an I/O adapter device driver in the first logical partition, the I/O
- 8 adapter device driver including a hardware interface to the shared network I/O adapter;
- 9 (C) providing a virtual device driver in the second logical partition, the virtual
- device driver providing a set of functions at least partially determined from functions
- 11 available in querying the I/O adapter device driver in the first logical partition for its
- 12 <u>available functions</u>; and
- 13 (D) communicating between the virtual device driver in the second logical
- partition and the I/O adapter device driver in the first logical partition.
- 1 28. (Cancelled)
- 1 29. (Original) The method of claim 27 further comprising the step of transferring data
- 2 between the virtual device driver and the shared network I/O adapter without the data
- 3 passing through the I/O adapter device driver.
- 1 30. (Original) The method of claim 27 wherein step (D) is performed by a partition
- 2 manager that communicates between the first and second logical partitions.

1	31. (Currently Amended) A computer-implemented method for sharing a shared network
2	I/O adapter between first and second logical partitions on a computer apparatus, the
3	method comprising the steps of:
4	(A) defining the first and second logical partitions on the apparatus, the first
5	logical partition controlling a shared network I/O adapter and the second logical partition
6	using the shared network I/O adapter controlled by the first logical partition;
7	(B) providing a partition manager that performs the steps of:
8	(B1) querying an I/O adapter device driver in the first logical partition for
9	its available functions;
10	(B2) providing a virtual device driver in the second logical partition with a
11	set of functions at least partially determined from the available functions
12	determined in step (B1);
13	[[(B1)]] (B3) receiving at least one transmit message from [[a]] the virtual
14	device driver in the second logical partition;
15	[[(B2)]] (B4) sending at least one transmit message to [[an]] the I/O
16	adapter device driver in the first logical partition that includes a hardware
17	interface to the shared network I/O adapter; and
18	[[(B3)]] (B5) transferring data from the virtual device driver in the second
19	logical partition to the shared network I/O adapter without the data passing
20	through the I/O adapter device driver in the first logical partition.

32-33. (Cancelled)

1	34. (Currently Amended) A computer-readable program product comprising:
2	(A) an I/O adapter sharing mechanism comprising:
3	(A1) an I/O adapter device driver for installation in a first logical partition,
4	the I/O adapter device driver including a hardware interface to a shared network
5	I/O adapter;
6	(A2) a virtual device driver for installation in a second logical partition,
7	the virtual device driver providing a set of functions at least partially determined
8	by functions available in querying the I/O adapter device driver for its available
9	functions; and
10	(A3) a communication mechanism that controls exchange of information
11	between the virtual device driver and the I/O adapter device driver;
12	(B) computer readable signal bearing recordable media bearing the I/O adapter
13	sharing mechanism.
1	35-37 (Cancelled)
1	38. (Original) The program product of claim 34 wherein the I/O adapter sharing
2	mechanism further comprises a transfer mechanism that transfers data between the virtual
3	device driver and the shared network I/O adapter without the data passing through the I/O
4	adapter device driver.
1	39. (Original) The program product of claim 34 wherein the communication mechanism
2	comprises a partition manager that communicates between the first and second logical
3	partitions.

1	40. (Original) The program product of claim 39 wherein the communication mechanism
2	further comprises a hosting interface in the first logical partition that communicates
3	between the I/O adapter device driver and the partition manager, wherein the partition
4	manager communicates between the hosting interface in the first logical partition and the
5	virtual device driver in the second logical partition.
1	41. (Currently Amended) A <u>computer-readable</u> program product comprising:
2	(A) a partition manager that performs the steps of:
3	(1) querying an I/O adapter device driver in a first logical partition for its
4	available functions;
5	(2) providing a virtual device driver in a second logical partition with a set
6	of functions at least partially determined from the available functions determined
7	<u>in step (1);</u>
8	[[(1)]] (3) receiving at least one transmit message from [[a]] the virtual
9	device driver in [[a]] the second logical partition;
10	[[(2)]] (4) sending at least one transmit message to [[an]] the I/O adapter
11	device driver in [[a]] the first logical partition that includes a hardware interface to
12	a shared network I/O adapter; and
13	[[(3)]] (5) transferring data from the virtual device driver in the second
14	logical partition to the shared network I/O adapter without the data passing
15	through the I/O adapter device driver in the first logical partition; and
16	(B) computer readable signal bearing recordable media bearing the partition
17	manager.
1	42-45 (Cancelled)